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EXPERIMENTAL TELEVISION CENTER OF THE ODESSA ELECTRICAL ENGINEERING INSTITUTE OF COMMUNICATIONS

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The educational-experimental television center in Odessa began operation in 1949 when the television chair of the Odessa Electrical Engineering Institute of Communications and student radio amateurs assembled the first models of television center units. Operation of these models gave the experience essential to the construction of the video channels of the telecenter.

In December 1950, four brigades were organized to construct the center.

The Odessa branch of VNORiE (All-Union Scientific and Technical Society of Radio Engineering and Electric Communications imeni A. S. Popov) was of great assistance in organizing and building the center.

On 1 May 1951, the planning and installation of the center's principal units were completed. Its video channel was designed for 441-line definition and a 15LI1 tube was used in the transmitting camera. The AM video transmitter operates on 49.75 Mc with a power of 300 w. A 16-ZP narrow-film projector was used to transmit motion pictures. The associated FM sound transmitter operates on 56.25 Mc with a power of 500 w.

Air-cooled GU-150 tubes supplied by six-phase rectifiers with gas-filled tubes were used in the transmitter output stages.

From May to September 1951, the building group was concerned with adjusting the units, and on 15 September, the first picture was transmitted.

After further considering the problem, the television chair of the institute decided to revise the definition to correspond to the Soviet television standard (625 lines for interlaced scanning). To do this, the line and frame

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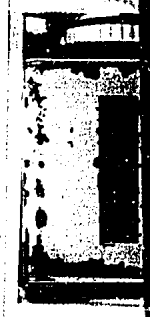

scanning circuits of the iconoscope and the signal compensating generator were rebuilt and the amplifier section's pass band was increased to 6.5 Mc. A new modulator of greater power and a wider pass band was constructed for the video transmitter.

On 6 January 1952, the new equipment was used for an experimental studio transmission of motion pictures and artistic activities among institute students and workers. Later, the Odessa television center carried out a series of test transmissions. At present, test transmissions of motion pictures are being continued and equipment is being improved. A wide-band antenna developed by Soviet Engineer Braude will be erected shortly.

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